

Safety data sheet

Lutensol* AT 25

Revision date : 2005/08/05
Version: 1.0

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(30157304/MDS_GEN_US/EN)

1. Substance/preparation and company identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information
CHEMTREC: (800) 424-9300
BASF HOTLINE: (800) 832-HELP

Chemical family: fatty alcohol ethoxylate
Synonyms: ETHOXYLATED FATTY ALCOHOL

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
68439-49-6	100.0 %	Ethoxylated alcohols

3. Hazard identification

Emergency overview

CAUTION: AVOID ALL DIRECT CONTACT WITH THE SUBSTANCE/PRODUCT.
Avoid contact with the skin, eyes and clothing.
Avoid inhalation of dusts/mists/vapours.
Wear NIOSH-certified chemical goggles.
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.
Wear chemical resistant protective gloves.
Wear protective clothing.
Ensure adequate ventilation.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Medical conditions aggravated by overexposure:

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.
See MSDS section 11 - Toxicological information.

4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary.
Immediate medical attention required.

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If on skin:

Wash affected areas with water for at least 15 minutes. Skin contact with hot molten substance/product may cause thermal burns. Seek medical assistance for removal of adhering material.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-fighting measures

Flash point: > 100 °C (DIN 51758)
Autoignition: > 200 °C (DIN 51794)

Suitable extinguishing media:

water, dry extinguishing media, foam, carbon dioxide

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

NFPA Hazard codes:

Health : 1 Fire: 1 Reactivity: 0 Special:

6. Accidental release measures

Personal precautions:

Use personal protective clothing.

Cleanup:

Place absorbed material in the same container as the spilled substance/product for disposal.

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

Further information:

High risk of slipping due to leakage/spillage of product.

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7. Handling and storage

Handling

General advice:

Protect against moisture. Shut containers immediately after taking product because product takes up the humidity of air. No special measures necessary provided product is used correctly.

Containers should be opened carefully in well-ventilated areas to avoid static discharge.

Protection against fire and explosion:

The product is not capable of a dust explosion.

Storage

General advice:

Containers should be stored tightly sealed in a dry place.

Temperature tolerance

Protect from temperatures above: 30 °C

The packed product must be protected against exceeding the indicated temperature.

8. Exposure controls and personal protection

Advice on system design:

Provide local exhaust ventilation to control dust.

Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed.

Wear a NIOSH-certified (or equivalent) particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Remove contaminated clothing.

9. Physical and chemical properties

Form:	flakes	
Odour:	product specific	
Colour:	colourless to yellowish	
pH value:	approx. 7	(50 g/l, 23 °C) (DIN/EN 1262)
solidification temperature:	approx. 37 °C	(1,013 hPa) (DIN/ISO 2207)
drop point:	approx. 47 °C	(DIN 51801)
Density:	1.0 g/cm ³	(60 °C) (DIN 51757)

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Bulk density:	approx. 600 kg/m ³	(ISO 697)
Viscosity, dynamic:	approx. 70 mPa.s	(60 °C)
Solubility in water:		soluble
Solubility (qualitative):	soluble	
	solvent(s): aromatic hydrocarbons, Ethanol	

10. Stability and reactivity

Conditions to avoid:

No conditions known that should be avoided.

Substances to avoid:

strong oxidizing agents

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Corrosion to metals:

No corrosive effect on metal.

11. Toxicological information

Acute toxicity**Oral:**

LD50/rat: > 2,000 mg/kg

Skin irritation:

rabbit: non-irritant (BASF-Test)

Eye irritation :

rabbit: non-irritant (BASF-Test)

12. Ecological information

Environmental fate and transport

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Biodegradation:

Test method:	mod. OECD 303A
Method of analysis:	Bismuth-active substance
Degree of elimination:	>= 90 %
Test method:	OECD 301B; ISO 9439; 92/69/EEC, C.4-C
Method of analysis:	CO ₂ formation relative to the theoretical value
Degree of elimination:	> 60 % (28 d)
Evaluation:	Analogous: Assessment derived from products with similar chemical character. Readily biodegradable.

Chemical oxygen demand (COD):

approx. 2,000 mg/g

Biochemical oxygen demand (BOD):

: 310 mg/g

Environmental toxicity**Acute and prolonged toxicity to fish:**

golden orfe/LC₅₀ (96 h): 1 - 10 mg/l

Toxicity to microorganisms:

DEV-L2 activated sludge/EC₁₀: > 5,000 mg/l

Other ecotoxicological advice:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.
It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport information

Reference Bill of Lading

15. Regulatory information

Federal Regulations**Registration status:**

TSCA, US released / listed

OSHA hazard category:

No data available.

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SARA hazard categories (EPCRA 311/312): Not hazardous

16. Other information

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

Local contact information

prod_reg@basf.corp

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